

**PERFORMANCE EXAM CHECKLIST****Effect of Water on Compressive Strength of Compacted Bituminous Mixtures  
FOP FOR AASHTO T 165**

Participant Name: \_\_\_\_\_ Exam Date: \_\_\_\_\_

Record the symbols "P" for passing or "F" for failing on each step of the checklist.

Procedure Element	Trial 1	Trial 2
1. Six specimens made according to T-167?	_____	_____
2. Specimens cooled and Bulk Specific Gravity determined?	_____	_____
3. Six specimens sorted into 2 groups of three?	_____	_____
a. Group 1 and 2 with essentially the same gravity	_____	_____
4. Group 1 placed in incubator at $77^{\circ} \pm 1.8^{\circ}\text{F}$ ( $25^{\circ} \pm 1^{\circ}\text{C}$ ) for no less than 4 hours?	_____	_____
5. Group 2 immersed in water at $140^{\circ} \pm 1.8^{\circ}\text{F}$ ( $60^{\circ} \pm 1^{\circ}\text{C}$ ) for 24 hours, Then transferred to 2 <sup>nd</sup> water bath $77^{\circ} \pm 1.8^{\circ}\text{F}$ ( $25^{\circ} \pm 1^{\circ}\text{C}$ ) for 2 hours?	_____	_____
6. Determine Compressive strength at 0.05 in/min?	_____	_____
7. Group 1 Compressive Strength averaged?	_____	_____
8. Group 2 Compressive Strength averaged?	_____	_____
9. Determine Index of retained strength, rounded to the nearest whole number?	_____	_____

$$\text{Index of retained strength, \%} = (S_2/S_1) \times 100$$

*Where:* $S_1$  = compressive strength of dry specimens (group 1), and $S_2$  = compressive strength of immersed specimens (group 2)

Comments: First attempt: Pass \_\_\_\_\_ Fail \_\_\_\_\_ Second attempt: Pass \_\_\_\_\_ Fail \_\_\_\_\_

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Examiner Signature \_\_\_\_\_ WAQTC #: \_\_\_\_\_